## **Supplementary files**

Table S1. Overview of ERP Processes in Europe

Country	Popul ation <sup>i</sup>	GDP per capi ta, curr ent pric es, curr ent purc hasi ng pow er parit ies (Eur o) 201 2 <sup>ii</sup>	ERP applica tion	Use of ERP	National legal framework related to ERP	Produ cts regula ted by ERP	Num ber of coun tries in bask et	Price level taken into account for reference purposes	Referen ce price calculati on	Rules adopted in case the price is not approved in all reference countries	Price revisi ons	Rules to choose pack sizes/dosages/phar maceutical formulations as reference
Austria	8,443, 018 (2012)	36,4 00	Yes	Main criteri on	Yes Law: Austrian Social Insurance Law (ASVG) Decree: Regulation on Procedural Rules for Calculation of the EU average price - 1 October 2005 (according to Art. 351c.6 ASVG)	Reimb ursed medici nes in out- patien t sector (in- patent /off- patent )	24 EU MS	Ex-factory price	Average price of referenc e countrie s	Price can be establishe d if drug is marketed in at least half of the EU MS for on-patent pharmace uticals and in at least two EU MS for generics. Otherwise , a temporary price is determine d¹	No	-When different pack sizes/dosages are approved in the reference countries at different prices, the same pack size/dosage of the assessed drug are used as reference -If the same pack size/dosage are not available, the closest pack size/dosage of the assessed drug are used as reference -If there is no comparable pack size, the average price per unit for all pack sizes marketed in the concerned EU MS is used (Conversion factor: price per unit is considered)If there is no comparable dosage, different dosage used as reference only when the same reference is not approved in at least 2 countries(Conversion factor: price per unit is considered) -Different

<sup>&</sup>lt;sup>1</sup>A temporary price based on the manufacturer's requested ex-factory price is determined by the Pricing Committee (Preiskommission, PK) and a price re-evaluation is carried out every 6 months. If the criteria are not met at the second re-evaluation (after 12 months), the EU average price is established on the basis of the information available, i.e. the available countries. In case this price is found to be lower than the temporary price, any excess costs incurred due to the price difference must be paid back to the health insurance.

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												pharmaceutical formulations used as reference only when the same reference is not approved in at least 2 countries
Belgium 2	11,094 ,850 (2012)	34,0 00	Yes	Suppo rtive criteri on	Yes Law: Law regarding compulsory insurance healthcare and indemnities, coordinated on 14 July 1994 (revised) Program Law of 27 December 2012 which contains most of the measures executing the budget 2013 plan and introducing price cuts based on international prices for reimbursed patented medicines  Decree: 2 Ministerial Decrees, both of 29 December 1989, one for reimbursement and one for non- reimbursable pharmaceuticals	Brand- only produ cts	26 EU MS	Ex-factory price	Most commo nly applied method ologies: Average prices of referenc e countrie s or price in the country of origin	Price based on reference countries where price is approved	No	-When different pack sizes/dosages are approved in the reference countries at different prices, the averages price per unit/per dosage unit are used as reference, respectively -Only similar pharmaceutical formulations are used as reference (e.g. oral solid forms are not compared to injectable forms)
Bulgaria	7,282, 041 (2013)	5,40 0	Yes	Main criteri on	Yes Law: Medicinal Products in Human Medicine Act, (Promulgated, State Gazette No. 31/13.04.2007, amended)- Chapter	Prescri ption- only medici nes	12 EU MS	Ex-factory price	Lowest price of referenc e countrie s	Price based on alternative reference countries: Belgium, Czech Republic,	Yes (Ever y 6 mont hs)	Not specified

<sup>&</sup>lt;sup>2</sup> ERP is used as supportive to the pricing decision but the 2013 healthcare budget introduced price cuts based on international prices for reimbursed patented medicines that were on the market for at least 5 years. The prices of these drugs are compared to the prices in six European countries (Austria, Finland, France, Germany, Ireland and the Netherlands). A price average is calculated and a price reduction is proposed for these drugs in Belgium, except if this leads to a lower price than the lowest unit price in any of the six reference countries. For the 2013 exercise, the pharmaceutical company could either accept this price reduction or propose another price reduction, having the same budget impact.

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					Twelve "Regulation of the prices of medicinal products" (Title amended, State Gazette No. 102/2012, effective 21.12.2012) Decree: Council of Ministers Decree N 295/2007 (OJ 104, 2007) for adopting a regulation on the terms and conditions for regulation and registration of the prices of medicines <sup>3</sup>					Poland, Latvia and Hungary		
Croatia	4,412, 137 (2011)	10,3 00	Yes	Main criteri on	Yes Decree: Ordinance on the criteria for determining the price of a wholesale and how reporting on wholesale prices (OG 155/09)	Reimb ursed medici nes (in- patent /off- patent )	3 EU MS	Pharmacy purchasing price	-For original products: 90% of the average price of referencesFor original breakthrough products: up to 100% of average price of referencesFor original breakthrough products: up to 100% of average price of referencesFor generic products	Price determine d with minimum 2 reference countries Alternativ e reference countries: Spain and Czech Republic	Yes (Ann ually in Febru ary)	-When different pack sizes/dosages are approved in the reference countries at different prices, the same pack size/dosage of the assessed drug are used as reference -If the same pack size is not available, the closest pack size of the assessed drug is used as reference -If the same pharmaceutical formulation is not available in one reference country, a similar pharmaceutical form could be used as reference

<sup>3</sup> According to amendment in price regulation of medicinal products dated of December 2012, the Council of Ministers, on a proposal submitted by the Minister of Health, shall stipulate with an Ordinance the conditions and the rules for regulating the prices of the medicinal products subject to medical prescription, as well as the conditions and the rules for registering the prices of the medicinal products dispensed without medical prescription. This ordinance is not yet published on the website of the Bulgarian Drug Agency.

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									up to 70% of average price of referenc e countrie s and/or up to 90% of the price of the last bioequiv alent generic introduc ed to the list			
Cyprus	862,01 1 (2012)	21,1 00 (201 1)	Yes	Main criteri on	Yes Decree: All rules for pricing are included in the Ministerial Council Decision of 9/9/2004, (Decision Number 61298). The last revised version has been published in the Government Gazette on 1/10/2012 (Regulatory Administrative Acts 410/2012)	Prescri ption- only brand medici nes	4 EU MS  Bask et of coun tries inclu des one coun try with high price s (Swe den), two coun tries with medi um price s (Aust ria and Franc	Pharmacy purchasing price	Average price of referenc e countrie s	When a product is not available in the reference countries, there are alternative countries: Denmark and Germany (high), Italy and Belgium (medium), Spain and Portugal (low) When there are no data in some of the selected countries, the price is set based on the rest	Yes (For new prod ucts revisi on of the baske t of the availa ble prices is perfo rmed annu ally for the first two years /For old prod ucts this revisi	-When different pack sizes are approved in the reference countries at different prices, the closest pack size of the assessed drug is used as reference -When different dosages are approved in the reference countries at different prices, the same dosage of the assessed drug is used as reference -When the pharmaceutical formulation of assessed drug approved in the reference countries is different from the formulation of the assessed drug, no other pharmaceutical formulation is used as reference

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							e) and one with low price s (Gree ce)			of the available data. Price is determine d with data from a maximum of four countries and with the minimum of one country When no data is available for products, data from the country of origin is used	on is perfo rmed every 2 years)	
Czech Republic	10,516 ,125 (2013)	14,5 00	Yes	Main criteri on	Yes Law: Public health insurance law no.48/1997 Coll., amended	Reimb ursed medici nes <sup>4</sup>	For maxi mum price: 19 EU MS For reim burse ment price: all EU MS	Ex-factory price	-For calculati ng the maximu m price: average price of the three lowest prices of referenc e countrie s -For calculati	For calculati ng the maximu m price: If the pharmac eutical (with the exceptio n of highly innovati ve drugs) is not on the	Yes (At least once every three years)	For pricing: Price of a product with the same pack size/strength is used as reference. The price is set as an average of the 3 lowest ex-factory prices, if applicable. If not, price agreement between the manufacturer and the insurance company could be accepted. If none of the first two options can be

<sup>&</sup>lt;sup>4</sup> A specific group of pharmaceuticals (where there are at least 4 MAHs on the market, at least 4 products with the same route of administration and during where there was no significant increase in prices in the previous 12 months) are regulated only by digressive mark-up scheme and not by fixed maximum price.

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									ng basic reimbur sement price: lowest price of all drugs from therape utic group, from the entire EU	market in at least three referenc e basket states, agreed price (i.e. price agreed between the MAH and the payer) of the pharmac eutical can be used in the evaluati on. If not applicabl e, the price is set as the maximu m ex- factory price of the closest therape utically compara ble pharmac eutical available		followed, price is set as the lowest ex-factory price of therapeutically comparable product <sup>5</sup> authorized in the Czech Republic or in reference basket countries For reimbursement: The reimbursement price (in reference group) is based on the lowest ex-factory price of any product in the reference group in all EU countries

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 $<sup>^5</sup>$  Therapeutically comparable product is considered as product with the same active substance, form, strength and package size; If there is no such a product it is accepted products with deviation range of the pack size (deviation of  $\pm 10\%$  or higher), with the same active ingredients but different strength etc.

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										in the Czech Republic or in the referenc e basket countrie s For highly innovati ve drugs the ex- factory price can be set as the average manufac turer's price found in at least 2 referenc e basket states		
Denmar k	5,602, 628 (2013)	43,8 00	Yes	Main criteri on	Yes Agreement between the Danish government and the Danish Association of the Pharmaceutical Industry (LIF) - December 2012	Hospit al-only medici nes	9 EU MS	Pharmacy purchasing price	Average price of referenc e countrie s	Price based on reference countries where price is approved  The average price is estimated regardless of how many countries in which the product is marketed.  Price ceiling is	Not specif ied	Not specified

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										establishe d only when the product is marketed in at least three of the reference countries		
Estonia	1,286, 479 (2013)	13,0 00	Yes	Main criteri on	Yes Law: Health Insurance Act - 2002 (amended) Regulations of the Ministry of Social Affairs	Reimb ursed innova tive medici nes	3 EU MS+ coun try of origin 6	Ex-factory price	Not defined/ lowest or average of prices of referenc e countrie s	Sometime s some other EU countries have been used as alternative s for the referencin g, if the data have been available. If the product is rather new and not on the market in any of the reference countries, the situation just has to be accepted as there is no possibility for ERP	Not specif ied	Not specified
Finland	5,401, 267	35,6 00	Yes	Suppo rtive	Yes Law: Health Insurance	Reimb ursed	26 EU	Pharmacy purchasing	No formula	Not applicable	Price decisi	-When different pack

<sup>&</sup>lt;sup>6</sup> ERP may include all EU Member States, and sometimes some other EU countries have been used as alternatives for the referencing, if the data have been available.

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	(2012)			criteri on	Act (1224/2004) (amended)	medici nes (excep t the medici nes enteri ng the refere nce price syste m directl y)	MS+ Icela nd, Nor way, Liech tenst ein	price	(prices in reference e countrie s are one criterion among many others that are consider ed when approving the reasona ble wholesal e price)		on in force for a maxi mum of five years (3 years for new active phar mace utical ingre dient)  ERP used as a part of the rene wal applic ation	sizes/dosages/pharm aceutical formulations are approved in the reference countries at different prices, the same pack size/dosage/formulat ion of the assessed drug are used as reference -If the prices of the same pack size/dosage/formulat ion are not available, the closest pack size/dosage/formulat ion of the assessed drug could be used as reference
France	64,350 ,226 (2009)	31,1 00	Yes	Main criteri on	Yes Framework agreement signed between LEEM and CEPS - 05 December 2012 Law: Art. L-162-17-6 of the Social Security Code	Innova tive reimb ursed medici nes <sup>7</sup>	4 EU MS	Ex-factory price	Prices similar to those in the referenc e countrie s	Not specified	Yes (Inno vative drugs under ERP syste m benef it from a	Not specified

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<sup>&</sup>lt;sup>7</sup> Innovative patented drugs in ambulatory settings and innovative hospital drugs that are reimbursed directly by statutory health insurance

<sup>•</sup> Drug having a level of improvement of clinical benefit (ASMR) I, II or III for their principal indication.

<sup>•</sup> Drug having a level of improvement of clinical benefit (ASMR) IV in specific cases:

<sup>-</sup> The daily cost of the treatment does not exceed that of the comparator. However a price notification of a drug having higher daily cost than the comparator could be accepted if the manufacturer demonstrates that the drug will generate cost savings of a same amount for the health insurance system.

<sup>-</sup>The drug will not replace a generic drug, or one which will shortly face generic competition. ERP may also be used as an argument during negotiations with the industry for dugs with ASMR IV or V.

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											Europ ean price guara ntee of 5 years with a one- year exten sion in specif ic cases)	
German Y	81,843 ,743 (2012)	32,6 00	Yes	Suppo rtive criteri on	Yes Law: AMNOG (Arzneimittelmarktneu ordnungsgesetz) Healthcare Reform - in effect since 01 January 2011	Innova tive reimb ursed medici nes <sup>8</sup>	15 EU MS	Ex-factory price	Not clearly defined  The price range is set by Europea n referenc e prices as upper and appropri ate compar ators price as lower level.  Drug sales	Not specified	Not specif ied	Not specified

<sup>&</sup>lt;sup>8</sup>Pharmaceuticals that demonstrate a clinical added value will be subject to price negotiations between the Federal Association of Sickness Funds and the pharmaceutical company, in consultation with the Association of Private Health Insurance Companies. ERP is one of the criteria for setting the reimbursement price. In case companies fail to negotiate a price discount with health insurers for their new drugs, an arbitration body – consisting of representatives of the sickness funds, the pharmaceutical industry and neutral members – has three months to set a price that takes into consideration international prices.

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									and purchasi ng power parity in each of the 15 referenc e countrie s must be taken into account			
Greece	11,309 ,885 (2011)	19,9 00 (200 7)	Yes	Main criteri on	Yes Laws: 3790/2009 (pricing method) - September 2009. Ministerial Decision no. ΔΥΓ3 (α) /οικ. 7789: "Provisions re pricing of medicines"	Brand- only produ cts	22 EU MS	Ex-factory price	Average of the 3 lowest prices of referenc e countrie s	Medicinal product should have been priced in at least 3 reference countries	Yes (Price s may be updat ed up to 4 times a year)	-When different pack sizes/dosages are approved in the reference countries at different prices, the same pack size/dosage of the assessed drug are used as reference -If the same pack size/dosage is not available in a reference country, the price is extrapolated based on the price of the other pack sizes/dosages according to a correlation provided in Article 12 of Ministerial Decision no ΔYT3(α) /oux. 7789. When two or more strengths of the same drug are priced and the prices derived are disproportional to each other, the lowest price shall be taken -Nothing specified

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Hungary	9,985, 722 (2011)	9,80	Yes	Main criteri on	Yes Law: Act XCVIII - 2006 on General Provisions relating to the Reliable and Economically Feasible Supply of Medicinal Products and Medical Appliances and on the Distribution of Medicinal Products	New active substances	27 EU MS+ Icela nd, Nor way, Licht enste in In practi ce Switz erlan d refer ence d as well	Ex-factory price	Lowest price of referenc e countrie s	Price based on reference countries where price is approved if at least 3 reference countries reimburse the product	Yes (At least once a year, howe ver, price comp ariso ns are not revie wed on a regul ar basis)	-When different pack sizes are approved in the reference countries at different prices, the closest pack size of the assessed drug is used as reference -When different dosages are approved in the reference countries at different prices, the same dosage of the assessed drug is used as reference -When the pharmaceutical formulation of assessed drug approved in the reference countries is different from the formulation of the assessed drug, the closest pharmaceutical form is used as reference but only formulation that is administered in the same way (e.g. tablets vs. film-coated tablets is accepted; tablets vs. oral suspension/injection is not accepted)

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Iceland	319,57 5 (2012)	32,9 00	Yes	Main criteri on	Yes Decrees: Regulation related to the Icelandic Medicine Pricing and Reimbursement Committee n°353/2013 - 27 March 2013 Medicinal Products Act no. 93/1994 - Article 43	Prescri ption-only medici nes (in-patent /off-patent , includi ng paralle l import ed produ cts and hospit al produ cts)	3 EU MS+ Nor way	Pharmacy purchasing price	-Original products: Price is compar ed to the average price on the correspo nding original product of reference e countries: Price is compar ed to the average price of the correspo nding generic of reference e countries: Price is compar ed to the average price of the correspo nding generic of reference e countries: Price is products: Price should be lower than price on the correspo nding original or generic product	Price based on reference countries where price is approved (one country or more)	Yes (At least every 2 years- it starts in Janua ry till comp lete revisi on (April- May- June- July))	-When different pack sizes are approved in the reference countries at different prices, the same package size, plusminus 10% of the assessed drug is used as reference -When different dosages are approved in the reference countries at different prices, the same dosage of the assessed drug is used as reference -When the pharmaceutical formulation of assessed drug approved in the reference countries is different from the formulation of the assessed drug, only comparable pharmaceutical formulations are used as reference (e.g. tablet versus capsules)

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									in Iceland -Hospital product: Price may not exceed the lowest price of referenc e countrie s, this includes innovati ve medicin es			
Ireland	4,467, 854 (2010)	35,7 00	Yes	Main criteri on	Yes The 2012 Framework agreement between the Irish Pharmaceutical Healthcare Association Ltd and the Department of Health and the Health Service Executive on the Supply Terms, Conditions, and Prices of Medicines - in effect since November 1 <sup>st</sup> 2012.	Reimb ursed prescri ption- only medici nes	9EU MS	Ex-factory price	Currenc y adjusted average price of referenc e countrie s	Price based on reference countries where price is approved and revised when a new price is available in an additional country  If a new medicine is not available in any of the nominate d EU states, the Irish price to wholesale r is agreed between	Yes (Plan ned by the fram ewor k agree ment - signe d for a durati on of 3 years-at defin ed dates (Nove mber 2012 and Janua ry	Not specified

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										represent atives of the manufact urer/ importer concerned and the Health Service Executive within 90 days of the date of the reimburse ment application	depe nding on prod ucts): down ward price realig nmen t based on the curre ncy-adjus ted avera ge exfactor y price of the drug in the refer ence count ries in which the medi cine is availa ble)	
Italy	60,626 ,442 (2011)	25,7 00	Yes	Suppo rtive criteri on	Yes Law: no. 326 - November 24, 2003 Decree: Interministerial Committee for Economic Planning (Comitato Interministeriale per la Programmazione Economia – CIPE) Resolution – February	Reimb ursed medici nes (in- patent /off- patent )	27 EU MS	Ex- factory/Phar macy purchasing price/Pharma cy retail price	Only used as addition al informat ion during the price negotiati on procedu	Price based on reference countries where price is approved	Yes (Price s are set for an initial 2- year perio d)	-When different pack sizes are approved in the reference countries at different prices, the closest package size of the assessed drug is used as reference

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					1st 2001 Law 122/2010 (DL 78/2010) for generic drugs placed in class A				re consideri ng lowest price but also GDP and pharmac eutical market size of referenc e countrie s For generic drugs placed in class A, AIFA set a maximu m reimbur sement price for package, equal to active ingredie nt, dosage form and route of administ ration, based on recogniti on of the current prices in four EU countrie s that are closer to			dosages are approved in the reference countries at different prices, the same dosage or the closest dosage of the assessed drug is used as reference -When the pharmaceutical formulation of assessed drug approved in the reference countries is different from the formulation of the assessed drug, no other pharmaceutical formulation is used as reference

Country	Popul ation <sup>i</sup>	GDP per capi ta, curr ent pric es, curr ent purc hasi ng pow er parit ies (Eur o) 201 2 <sup>ii</sup>	ERP applica tion	Use of ERP	National legal framework related to ERP	Produ cts regula ted by ERP	Num ber of coun tries in bask et	Price level taken into account for reference purposes	Referen ce price calculati on	Rules adopted in case the price is not approved in all reference countries	Price revisi ons	Rules to choose pack sizes/dosages/phar maceutical formulations as reference
									the Italian context: United Kingdo m, German y, Spain and France <sup>9</sup>			
Latvia	2,248, 374 (2010)	10,9	Yes	Main criteri on	Yes Decree: Regulation of the Cabinet of Ministers of the Republic of Latvia no. 899 - 31 October 2006	Reimb ursed medici nes	7 EU MS Regul ation also refer s to a price com paris on in other EU MS	Ex-factory price/Pharma cy purchasing price	Price for the medicin al products or medical devices to be included on the List of reimbur sable medicin al products: shall not be higher than the third lowest manufac turer's sales prices or wholesal e prices for these medicin al products in Czech	Price based on reference countries where price is approved and revised when new price available in additional country	Yes (Price s for the medi cines includ ed in the Positi ve list are verifie d once in 2 years)	-When different pack sizes are approved in the reference countries at different prices, the same or closest package size of the assessed drug is used as reference -When different dosages are approved in the reference countries at different prices, it is considered as a situation where the drug is not available -When the pharmaceutical formulation of assessed drug approved in the reference countries is different from the formulation of the assessed drug, no other pharmaceutical formulation is used as reference

<sup>&</sup>lt;sup>9</sup> From April 2011, reimbursed off-patent originals and generics prices were realigned to average prices in France, Germany, Spain and the United Kingdom, in addition to the lowest-priced product in the cluster. Where the reference prices exceed the mean European reference price, they are cut to the European level.

Country	Popul ation <sup>i</sup>	GDP per capi ta, curr ent pric es, curr ent purc hasi ng pow er parit ies (Eur o) 201 2 <sup>ii</sup>	ERP applica tion	Use of ERP	National legal framework related to ERP	Produ cts regula ted by ERP	Num ber of coun tries in bask et	Price level taken into account for reference purposes	Referen ce price calculati on	Rules adopted in case the price is not approved in all reference countries	Price revisi ons	Rules to choose pack sizes/dosages/phar maceutical formulations as reference
									Republic , Denmar k, Romani a, Slovakia and Hungary , and shall not exceed the manufac turer's sales prices or wholesal e prices for these medicin al products in Estonia and Lithuani a			
Lithuani a	2,971, 905 (2013)	11,0	Yes	Main criteri on	Yes Decrees: Governmental Decree No 1806 of 23 December, 2009 on calculation of base (reimbursed) prices of medicinal product. The reference countries are set by Governmental Decree No 256 of 10 March, 2010	Reimb ursed medici nes	8 EU MS	Price declared by marketing authorisation holder or his/her representativ e for Lithuania Legal acts do not stipulate special requirements what type of price (ex- factory, PPP or PRP) shall be declared by manufacture	Referenc e price shall not exceed 95% of the average price of referenc e countrie s	Price based on reference countries where price is approved. If no data on prices in the reference countries, price based on price in the country of origin	Yes (Ann ually/I n the first quart er of the year befor e adopt ion of the Annu al Price List)	-When different pack sizes/dosages are approved in the reference countries at different prices, the same pack size/dosage of the assessed drug are used as reference -If the same pack size/dosage are not available, the closest pack size/dosage of the assessed drug is used as reference (and comparatively cheapest package) -When the pharmaceutical

Country	Popul ation <sup>i</sup>	GDP per capi ta, curr ent pric es, curr ent purc hasi ng pow er parit ies (Eur o) 201 2 <sup>ii</sup>	ERP applica tion	Use of ERP	National legal framework related to ERP	Produ cts regula ted by ERP	Num ber of coun tries in bask et	Price level taken into account for reference purposes	Referen ce price calculati on	Rules adopted in case the price is not approved in all reference countries	Price revisi ons	Rules to choose pack sizes/dosages/phar maceutical formulations as reference
								r for reference purpose.				formulation of assessed drug approved in the reference countries is different from the formulation of the assessed drug, no other pharmaceutical formulation is used as reference
Luxemb	537,03 9 (2013)	83,6 00	Yes	Main criteri on	Yes Decree: Grand-Ducal Regulation of 1 December 2011 laying down the criteria, conditions and procedures relating to the pricing of medicinal products for human use	All medici nes	Coun try of origin	Pharmacy retail price	Price cannot be greater than the price granted by the compet ent authorit y of the country of origin	Not applicable: origin of the drug taken into considerat ion	Yes (Phar mace utical comp any requir ed to repor t any chang e in price of a prese ntatio n in the count ry of origin , withi n one mont h of the chang e)	Not specified
Malta	421,23 0 (2013)	16,3 00	Yes	Main criteri on		-Public Sector: Reimb ursed medici nes	Publi c secto r: 11 EU MS	-Public sector: Pharmacy purchasing price	-Public Sector: average price of referenc e countrie s	Price based on reference countries where price is approved	Yes (Publi c Secto r: varia ble perio	Public sector: -When different pack sizes are approved in the reference countries at different prices, the cheapest pack size per unit of the assessed drug is

Country	Popul ation <sup>i</sup>	GDP per capi ta, curr ent pric es, curr ent purc hasi ng pow er parit ies (Eur o) 201 2 <sup>ii</sup>	ERP applica tion	Use of ERP	National legal framework related to ERP	Produ cts regula ted by ERP	Num ber of coun tries in bask et	Price level taken into account for reference purposes	Referen ce price calculati on	Rules adopted in case the price is not approved in all reference countries	Price revisi ons	Rules to choose pack sizes/dosages/phar maceutical formulations as reference
					-Public sector: Yes Law: The Availability of Medicinal Products within the Government Health Services Regulations (LN. 58 - 2009) within the Medicines Act (Cap. 458) Moreover, there is an internal Standard Operating Procedure related to use of ERP  -Private Sector: No.ERP operates under the provisions of a voluntary agreement	Private Sector: Medici nes sold in comm unity pharm acies	te secto r:12 EU MS	sector: Pharmacy retail price	-Private Sector: Reference countrie s are categoriz ed in a three- tier price- level classifica tion using the Harmoni zed Index of Consum er Prices (HICP) for the health sector Low- priced tier (L): Spain, United Kingdo m, Portugal, France Medium -priced tier (M): Belgium, Iceland, Cyprus, Italy High- priced tier (H): Denmar k, German y, Ireland,		d/Priv ate Secto r: every 1½-2 years or as requir ed if trigge red by a consu mer comp laint)	used as reference -When different dosages are approved in the reference countries at different prices, the same dosage of the assessed drug is used as reference -When the pharmaceutical formulation of assessed drug approved in the reference countries is different from the formulation of the assessed drug, no other pharmaceutical formulation is used as reference Private sector: The EPR entails a strict like-with-like comparison of the basis of the proprietary name, strength and pharmaceutical formulation combination. However weighted reference prices of pack sizes in the range of ½ to twice the local pack size are used

Country	Popul ation <sup>i</sup>	GDP per capi ta, curr ent pric es, curr ent purc hasi ng pow er parit ies (Eur o) 201 2 <sup>ii</sup>	ERP applica tion	Use of ERP	National legal framework related to ERP	Produ cts regula ted by ERP	Num ber of coun tries in bask et	Price level taken into account for reference purposes	Referen ce price calculati on	Rules adopted in case the price is not approved in all reference countries	Price revisi ons	Rules to choose pack sizes/dosages/phar maceutical formulations as reference
									Norway An algorith m is used for the derivatio n of a referenc e price			
Norway	5,051, 275 (2013)	77,5 00	Yes	Main criteri on	Yes Law: LOV 1992-12-04 nr 132: Lov om legemidler (Norwegian Act on Medicinal Products). In addition to these rules, the Norwegian Medicines Agency (NOMA) also uses the Guideline on Pricing of Medicinal Products when determining the price	Prescri ption- only medici nes (in- patent )	9 EU MS	Pharmacy purchasing price	Average of the 3 lowest prices of referenc e countrie s 10	Price based on reference countries where price is approved	Yes (Ann ually- In the end of Augu st/ear ly Septe mber each year, NOM A publis hes the active ingre dient s that will be recon sidere d, and in what order	-When different pack sizes are approved in the reference countries at different prices, the same pack size of the assessed drug is used as reference -When pack size are not comparable, price comparisons with other countries are done on the basis of units (price price tablet, dose, etc.) <sup>12</sup> -When different dosages are approved in the reference countries at different prices, price ratios between different strengths are considered <sup>13</sup> -When the pharmaceutical formulation of assessed drug approved in the reference countries is different from the

<sup>&</sup>lt;sup>10</sup> In some situations, when using the general rules, the calculated price may drop to a price level which is so low that it may be expedient to set a higher price. Two conditions must apply to justify deviation from the main rules:

<sup>1.</sup> There is a major risk that the medicine will no longer be available in the market if the calculated maximum price is implemented.

<sup>2.</sup> The absence of the medicine from the market could have negative consequences for the availability of cost-effective medicines. If these conditions apply, Norwegian Medicines Agency (NOMA) will consider setting a higher price based on discretionary judgment.

Country	Popul ation <sup>i</sup>	GDP per capi ta, curr ent pric es, curr ent purc hasi ng pow er parit ies (Eur o) 201 2"	ERP applica tion	Use of ERP	National legal framework related to ERP	Produ cts regula ted by ERP	Num ber of coun tries in bask et	Price level taken into account for reference purposes	Referen ce price calculati on	Rules adopted in case the price is not approved in all reference countries	Price revisi ons	Rules to choose pack sizes/dosages/phar maceutical formulations as reference
											for the upco ming year)	formulation of the assessed drug, different varieties of the same product will be considered as varieties of the same pharmaceutical (e.g. tablets, capsules, melting tablets, soluble tablets and effervescent tablets). NOMA will only set a higher price for other varieties of the same medicine on exception
Poland	38,533 ,299 (2013)	9,60 0 (201 1)	Yes	Suppo rtive criteri on	Yes Law: Act dated 12 May 2011 related to the reimbursement of medicines, foodstuffs for particular nutritional use and medical devices. But no legal rules nor informal guidelines on ERP use	Reimb ursed medici nes	27 EU MS+ Nor way, Icela nd, Liech tenst ein, Switz erlan d	Ex-factory price	The Economi c Committ ee takes into account during the price negotiati ons with the manufac turer, the	Not applicable (Price not based on ERP)	No (Price s are not ERP based thus ERP is not a basis for furth er revisi ons-	The company submits data only on the same drug for reimbursement of which it applies

<sup>&</sup>lt;sup>12</sup> When setting the price, differentiation is normally made between the price per unit in large (generally defined as more than 30 units) and small packages (generally defined as 30 or fewer units), with some exemptions for some medicinal products. In some cases, when comparing prices from different countries, the price per tablet in a small package may be lower than the price per tablet in a large package. In such cases, the price per tablet in the large package is set equal to the price per tablet in the small package. If the price per tablet is higher in a small package than in a large package, the price difference is accepted provided that the difference is not considered unreasonable.

<sup>&</sup>lt;sup>13</sup> When setting the price, the Norwegian Medicines Agency (NOMA) will aim at a reasonable price ratio between different strengths of a given product. A low dosage may not have a higher maximum price than a higher dosage.

<sup>&</sup>lt;sup>11</sup> The Norwegian Medicines Agency (NOMA) yearly re-evaluates the maximum price for the 250 active ingredients with the highest turnover. This is done to ensure that the maximum prices reflect the developments in European prices. The prices of newly-launched products are exempt from this rule. In the two year period after a launch, NOMA may request information about new prices every six months from the Market Authorisation Holder (MAH) in question. Withdrawal of a product from one of the reference countries may be cause for an alteration in the price in Norway. Documentation must be produced to show that a product has in fact been withdrawn from the market if this is to give cause for price changes.

Country	Popul ation <sup>i</sup>	GDP per capi ta, curr ent pric es, curr ent purc hasi ng pow er parit ies (Eur o) 201 2"	ERP applica tion	Use of ERP	National legal framework related to ERP	Produ cts regula ted by ERP	Num ber of coun tries in bask et	Price level taken into account for reference purposes	Referen ce price calculati on	Rules adopted in case the price is not approved in all reference countries	Price revisi ons	Rules to choose pack sizes/dosages/phar maceutical formulations as reference
									maximu m and minimu m ex- factory prices over the precedin g year in the EU and EFTAMS where the drug is already reimbur sed		reimb urse ment status is valid for a 2-5 years perio d)	
Portugal	10,637 ,713 (2010)	16,3 00 (201 0)	Yes	Main criteri on	Yes Laws: Decree- law 112/2011 - 9 November 2011, amended by Decree- law 152/2012 - 12 July 2012 Ordinance 4/2012 - 02 January 2012 Decree-law 34 - 27 February 2013 Ordinance 91/2013	Prescri ption-only medici nes and reimb ursed OTC (exclu ding generi cs and the hospit al restrict ed prescri ption medici	3 EU MS	Ex-factory price	Average price of referenc e countrie s	Price based on reference countries where price is approved	Yes (Ann ually based on the avera ge price of the same drug in the refer ence count ries/ Fixed perio d defin	-When different pack sizes/dosages are approved in the reference countries at different prices, the same pack size/dosage of the assessed drug are used as reference -If the same pack size/dosage are not available, the closest pack size/dosage of the assessed drug are used as reference -When the pharmaceutical formulation of assessed drug approved in the

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<sup>&</sup>lt;sup>14</sup>-In case that the same pharmaceutical does not exist in any reference countries, it is used the average of the lowest ex-factory prices of the identical or similar pharmaceuticals in the reference countries (excluding generics).

<sup>-</sup>In case that neither identical nor similar pharmaceuticals exist in any reference country but exist in Portugal, it is used the ex-factory price of the identical or similar pharmaceuticals that are commercialised in the national market.

<sup>-</sup>In case that neither identical nor similar pharmaceuticals exist in any reference country nor in Portugal, the ex-factory price of the original country is used.

The price of the drug is considered as provisional, if it was not based on the price of the same medicine or, if not available, identical or similar pharmaceuticals in the reference countries. This price will be provisional up to the drug price may be based on the price of the same medicine or, if not available, identical or similar pharmaceuticals in 2 of the 3 reference countries.

Country	Popul ation <sup>i</sup>	GDP per capi ta, curr ent pric es, curr ent purc hasi ng pow er parit ies (Eur o) 201 2 <sup>ii</sup>	ERP applica tion	Use of ERP	National legal framework related to ERP	Produ cts regula ted by ERP	Num ber of coun tries in bask et	Price level taken into account for reference purposes	Referen ce price calculati on	Rules adopted in case the price is not approved in all reference countries	Price revisi ons	Rules to choose pack sizes/dosages/phar maceutical formulations as reference
						nes)					ed each year)	reference countries is different from the formulation of the assessed drug, no other pharmaceutical formulation is used as reference
Romani a	21,462 ,186 (2010)	6,20 0	Yes	Main criteri on	Yes Order no. 75 - 30 January 2009 approving the Norms regarding the calculation of the prices of medicinal products for human use	Prescri ption- only medici nes	12 EU MS	Ex-factory price	Lowest price of referenc e countrie s	If there is no price in the 12 EU MS then the price from the origin country is considere d	Yes (Ann ually in April)	-When different pack sizes are approved in the reference countries at different prices, the same pack size of the assessed drug is used as reference elf the same pack size/dosage are not available, the closest pack size of the assessed drug is used as reference e-No specific information for different dosages and pharmaceutical formulations
Slovakia	5,410, 836 (2013)	13,2 00	Yes	Main criteri on	Yes Law: Act no. 363/2011 Coll., on the conditions of reimbursing drugs, medical devices and dietetic foods from public health insurance revised January 2013.	Reimb ursed medici nes	27 EU MS	Ex-factory price	Average price of the 3 lowest prices from all EU MS	Price based on reference countries where price is approved	Yes (Twic e a year in April and Octo ber)	-When different pack sizes/dosages are approved in the reference countries at different prices, the same pack size/dosage of the assessed drug are used as reference -When the pharmaceutical formulation of assessed drug approved in the reference countries is different from the formulation of the assessed drug, no other pharmaceutical

Country	Popul ation <sup>i</sup>	GDP per capi ta, curr ent pric es, curr ent purc hasi ng pow er parit ies (Eur o) 201 2"	ERP applica tion	Use of ERP	National legal framework related to ERP	Produ cts regula ted by ERP	Num ber of coun tries in bask et	Price level taken into account for reference purposes	Referen ce price calculati on	Rules adopted in case the price is not approved in all reference countries	Price revisi ons	Rules to choose pack sizes/dosages/phar maceutical formulations as reference
Slovenia	2,058, 821 (2013)	17,2 00	Yes	Main criteri on for Maxi mum Allow ed Price/ Suppo rtive criteri on for Extrao rdinar y Higher Price 15	Yes Law: Medicines Act- Official Gazette of RS, no. 31/2006 and 45/2008 Decree: Rules on the pricing of medicinal products for human use-Official Gazette of RS, no. 102/2010 Pricing Regulation: Official Gazette of RS, no. 6/12	Reimb ursed medici nes (in- patent /off- patent )	3 EU MS	Ex-factory price	-For original drugs and biosimilars: the maximu m price is based on the lowest price of the same drug in reference countries and shall not exceed 100% of the calculate d price -For generics: the maximu m price is based on the average of the mean values calculate d in each country	Price based on reference countries where price is approved -For original drugs and generics: *If the drug is not available in the reference countries, the compariso n of prices is based on the medicines prices in other EU MS and EEA countries where the drug is marketed *If the drug is not available in EU MS and EEA countries, the drug is marketed the drug is marketed available in EU MS and EEA countries, the compariso	Yes (Twice ea year in case of chang es in the price of count ries of refer ence in Marc h includ ing 1 April and Septe mber includ ing 1 Octo ber)	as reference  -When different pack sizes/dosages are approved in the reference countries at different prices, the same pack size/dosage of the assessed drug are used as reference -In case the same pack size is not available, a price per unit is calculated -In case the same dosage is not available, a price conversion from other dosages is performed. It is applied only in the case when the same dosage is not available in any of the reference MS. In the opposite case, only the products in one or 2 MS that comply directly, are used -If the same pharmaceutical formulation is not available in the reference countries and for a similar route of administration, comparable pharmaceutical

<sup>&</sup>lt;sup>15</sup> Extraordinary Higher Price is a kind of higher premium price for eligible products.
<sup>16</sup> Pricing Rule contains provisions for proportional calculation of the size of package according to the number of units present, as well as for amount of active principle in particular unit or mass/volume measure of the active principle in a multidosing form (i.e. solutions)

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									betwee n the least and most expensive e generics and shall not exceed a certain percenta ge of the calculate d price (betwee n 68 and 72% in 2012, depending on the number of reference countries where the same generic drug is marketed) -For drugs application for extraord inary permitted higher prices: ERP is one of the criteria to set the	n of prices is based on prices in other European countries where the drug is marketed -For biosimilars:  *If the drug is not available in the reference countries, the compariso n of prices is based on the medicines prices in other EU MS and EEA countries where the drug is marketed *If the drug is not available in EU MS and EEA countries where the drug is marketed or gis not available in EU MS and EEA countries, ex-factory price of the original biological medicinal product is taken into account		formulations (e.g. capsule-tablet) can be used as reference. Cross referencing of fast-release and modified-release formulation is not possible

Country	Popul ation <sup>i</sup>	GDP per capi ta, curr ent pric es, curr ent purc hasi ng pow er parit ies (Eur o) 201 2"	ERP applica tion	Use of ERP	National legal framework related to ERP	Produ cts regula ted by ERP	Num ber of coun tries in bask et	Price level taken into account for reference purposes	Referen ce price calculati on	Rules adopted in case the price is not approved in all reference countries	Price revisi ons	Rules to choose pack sizes/dosages/phar maceutical formulations as reference
									prices (compari son with ex- factory prices in the EU member States and EEA countrie s where the product is markete d) among others, and the prices are calculate d accordin g to a complex formula as defined per regulatio n			
Spain	46,152 ,926 (2011)	22,3 00	Yes	Suppo rtive criteri on	ERP is not more regulated. Nevertheless, ERP respond to internal criteria of the Interministerial pricing committee	All innova tive medici nes when no compa rator availab le in	Not regul ated 17	Ex-factory price	Lowest price of referenc e countrie s	No data available	Yes (Yearl y revie ws of Europ ean prices for select ed mark	Not specified

<sup>&</sup>lt;sup>17</sup> Not regulated, the criteria adopted in the Interministerial Pricing Committee is to consider, in general , countries from the Euro zone due to fluctuating exchange rates in other countries, although the criteria might change.

Country	Popul ation <sup>i</sup>	GDP per capi ta, curr ent pric es, curr ent purc hasing pow er parit ies (Eur o) 201 2 <sup>ii</sup>	ERP applica tion	Use of ERP	National legal framework related to ERP	Produ cts regula ted by ERP	Num ber of coun tries in bask et	Price level taken into account for reference purposes	Referen ce price calculati on	Rules adopted in case the price is not approved in all reference countries	Price revisi ons	Rules to choose pack sizes/dosages/phar maceutical formulations as reference
						Spain					et)	
Sweden	9,555, 893 (2013)	43,0 00	No	Not applic able	Not applicable	Not applica ble	Not appli cable	Not applicable	Not applicabl e	Not applicable	Not applic able	Not applicable
Switzerl and	7,954, 662 (2012)	61,9 00	Yes	Main criteri on	Yes Decree: Ordinance on health insurance services/Ordonnance sur les prestations de l'assurance des soins (OPAS) -Septembre 1995	Reimb ursed medici nes	6 EU MS	Ex-factory price	Average price of referenc e countrie s	Price based on reference countries where price is approved and revised when new price available in additional country	Yes (Ever y 3 years, revie w of prices again st prices in the refer ence count ries (May)	-When different pack sizes are approved in the reference countries at different prices, the closest pack size of the assessed drug is used as reference -When different dosages are approved in the reference countries at different prices, the same dosage of the assessed drug is used as reference -When the pharmaceutical formulation of assessed drug approved in the reference countries is different from the formulation of the assessed drug, different from the formulations can exceptionally be used depending on the case
The Netherl ands	16,779 ,575 (2013)	35,8 00	Yes	Main criteri on		Prescri ption- only medici nes (All outpat ient	4 EU MS	Pharmacy purchasing price	Average price of referenc e countrie s	Price only set if a comparab le drug is marketed in at least 2 of the 4	Yes (Twic e- yearly basis)	-When different pack sizes are approved in the reference countries at different prices, the cheapest pack size per defined

Country	Popul ation <sup>i</sup>	GDP per capi ta, curr ent pric es, curr ent purc hasi ng pow er parit ies (Eur o) 201 2"	ERP applica tion	Use of ERP	National legal framework related to ERP	Produ cts regula ted by ERP	Num ber of coun tries in bask et	Price level taken into account for reference purposes	Referen ce price calculati on	Rules adopted in case the price is not approved in all reference countries	Price revisi ons	Rules to choose pack sizes/dosages/phar maceutical formulations as reference
					Yes Law: the Medicines Prices Act (WGP) - 1996 (amended)	drugs, includi ng brand ed and generi c drugs, and high-cost medici nes and orpha ns drugs for inpatie nt care)				reference countries		daily dose of the assessed drug is used as reference -When different dosages are approved in the reference countries at different prices, the same dosage of the assessed drug is used as reference -When the pharmaceutical formulation of assessed drug approved in the reference countries is different from the formulation of the assessed drug, no other pharmaceutical formulation is used as reference
UK	62,026 ,962 (2010)	30,5 00	No	Not applic able	Not applicable	Not applica ble	Not appli cable	Not applicable	Not applicabl e	Not applicable	Not applic able	Not applicable

Available from:

http://epp.eurostat.ec.europa.eu/tgm/table.do?tab=table&init=1&language=en&pcode=tps00001&plugin=1 (Cited 2013 Sep 12)

<sup>&</sup>lt;sup>i</sup> Eurostat. Population

<sup>&</sup>lt;sup>ii</sup> Eurostat. GDP Available from: http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=nama\_gdp\_c&lang=en (Cited 2013 Sep 13)